B.O.Q OF ELECTRICAL & DATA WORK FOR INDIAN BANK AT JAGNNATH PRASAD BRANCH. SL.N **DESCRIPTION OF ITEMS** QUANTIT RATE **AMOUNT** Ο. 1. ELECTRICAL WIRING WORK 1.1 Light / fan points Concealed / ressessed / surface light point / fan point / call bell point etc. wiring using 1100V FR grade 3R (P+N+E) x 1.5 Sq.mm FRLS multi stranded copper conductor PVC insulated wires (with proper R,Y,B color code) pulled through rigid FR PVC conduits of 20mm Dia 1.5 mm thick laid concealed over false ceiling or in wall chases or on the ceiling in case of an open ceiling, with modular type switch plate, switches, GI concealed back box, etc. of legrand myline or equivalent make. S.I.T.C.(Supply Installation Testing And Commissioning) as directed by the Engineer-incharge. (Each circuit shall not feed more than 8 points OR 800 watts as per following configuration.) NOTE:- 1. Only FRLS wire shall be used; 2. The wires from ceiling junction to light points / light fixture shall be drawn in flexible PVC conduit with adptor & cover for junction box & crimp type lugs at both the ends alongwith necessary hardware & accessories, etc. as required; 4. Looping of Neutral / Earth wire between two seperate Primary / Full Points is strictly not allowed; 5. Looping of Neutral / Earth wire between two seperate circuits on similar or other phase is strictly not allowed; 6. Ferulling / numbering / taggning to wires with circuit number & db name for all lighting & raw / ups power shall be strictly followed at both DB & switch board / switch socket boards ends. Primary light points including the cost of clip in type 6A Nos. 32.00 Modular switch of legrand mylinc or equivalent make. S.I.T.C. as directed by the Engineer-in-charge.(1 light/fan controlled by one switch) 1.2 Secondary point same as item No. 1.1 (2 light/fan Nos 16.00 controlled by one switch) 1.3 Independent point using one 6 Amp Modular Switch and one Nos 9.00 6 Amp, 2/3 pin Modular scoket mounted on a sutable size Box for wall fans. 6 Amp 2/3 pin Modular scoke with 6A Modular switch. 3.00 1.4 Nos. on common switch Board.) Primary light points including the cost of clip in type 6A 1.5 Nos. 3.00 Modular switch of legrand mylinc or equivalent make & model as approved by project in charge. (I light controlled by one switch UPS point) Supply, installation and testing of timer with contactor (L&T 2.0 Nos. 1.00 / Legrand) make controlling the glowsign board with all accessories complete enclosed in Powder coated metal box as required as per direction of Engineer in charge. The

system will be apart of the panel board.

| SL.N O. | DESCRIPTION OF ITEMS | UNIT | QUANTIT Y | RATE | AMOUNT |
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| 0. | 1.1 Power points | | T | | |
| 3.0 | Concealed power point using 16 Amp 3 Pin plug socket with 16 Amp Modular switch of legrand mylinc or equivalent make mounted on separate board using suitable size galvanized iron junction & switch boxes & clip in type modular type switch plate, etc. Supply taken from R.D.B./ Nearest L.D.B. The point should not taken from any switch Board. S.I.T.C. as directed by the Engineer-in-charge. | | 4.00 | | |
| 4.0 | Concealed raw power point using 6 Amp, 2/3 Pin Modular plug socket with 6 Amp Modular switch of legrand mylinc or equivalent make on separate board using galvanized iron junction & switch boxes & clip in type modular type switch plate, switches, GI/PVC concealed back box, etc. Supply taken from Nearest L.D.B. Maximun 3 Points per Circuit for counter & Table | | 9.00 | | |
| 5.0 | Supply and installation of Concelaed 2 nos. of 20A/25A, industrial socket with inbult MCB mounted in a prefabricated powder coated metal enclosure (legrand make or equivalent make) concealed and complete to the satisfaction of Bank for inverter input .S.I.T.C. as directed by the Engineer-in-charge (for inverter) | Nos | 1.00 | | |
| | 2 COMPUTER WIRING WORK | | | | |
| 1.0 | Supplt and fixing of concealed UPS power points using 1 nos. of 16 Amp, 3 Pin Modular switches to be provided on table top + 4 nos. 6 Amp Modular socket below table top of legrand mylinc or equivalent make taken from Nearest C.D.B with sutable size galvanized iron/PVC junction & switch boxes & clip in type modular type switch plate, GI/PVC concealed back box, etc. Maximun 3 Points per Circuit for counter & Table. S.I.T.C. as directed by the Engineer-incharge. | SET | 9.00 | | |
| 2.0 | Supplt and fixing of concealed UPS power points using clip in modular type 5 No. of 6/16 amp socket points controlled by 2 No of 16 amp modular switch with indicator of legrand mylinc or equivalent make taken from Nearest C.D.B with galvanized iron junction & switch boxes & clip in type modular type switch plate, switches, GI concealed black box, etc The point should not from any switch Board S.I.T.C. as directed by the Engineer-in-charge. | SET | 1.00 | | |
| 3.0 | Concealed power point using 16 Amp 3 Pin plug socket with 16 Amp Modular switch of legrand mylinc or equivalent make mounted on separate board using suitable size galvanized iron junction & switch boxes & clip in type modular type switch plate, etc. Supply taken from R.D.B./ Nearest L.D.B. The point should not taken from any switch Board. S.I.T.C. as directed by the Engineer-in-charge. | | 2.00 | | |

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| О. | 3 A.C. WORK | | Y | | |
| 1.0 | Supply & Installation of all required materials and wiring to Split AC point 25 Amp 3 Pin Modular socket with 16A three pin plug mouted on suitable size concealed GI Box near to the AC controlled by Concelaed 20A/25A, 415 V DP Isolator mounted in a prefabricated powder coated DP metal enclosure (legrand make Ekinox3 model or equivalent make) concealed and complete to the satisfaction of Bank for 1.5 TR Cassatte/split AC.S.I.T.C. as directed by the Engineer-in-charge | Nos | 6.00 | | |
| | 4.PANEL BOARD & DISTRIBUTION BOARDS. | | | | |
| 1.0 | Main Panel Board | Set | 1.00 | | |
| | Supply, delivery, installation, testing, commissioning, of L&T indoor wall, floor, mounted, type distribution boards made out of 2 mm thk. CR sheet metal duely acid treated premised & painted with 2 coats of enamel paint compartment arrangement for each equipment & bus bar chamber on the top of the panel running horizontal through out its length duly lamp, vermin proof having provision cable by conduit entry, earthling stud as per specification mentioned below duly factory wired confirming to the relevant ISS & as per special condition of contract, making good the damages M.S. Cubical type Panel board should have hinged door at the front. The panel shall be provided with all accessories & following arrangements complete in all respect & direction of EIC (before fabrication of panel board drawing is to be approved by Engineer-in-charge). | | | | |
| | Incoming- | | | | |
| | 1No 100A- 25KA - 4POLE -MCCB. | | | | |
| | 1 set of 100A TPN copper bus bar | | | | |
| | 63A, 4-POLE Change over | | | | |
| | 1 set of 63 A TPN copper bus bar | | | | |
| | Out going- | | | | |
| | 1 Nos 40A, 4P MCB, for U.P.S. | | | | |
| | 1 Nos 40A, 4P MCB, Spare | | | | |
| | 1 Nos100A, 4P MCB, forA.C | | | | |
| | 1 Nos 32A, 4P MCB, Spair | | | | |
| | 1 Nos 32 A DP MCB for L.D.B. | | | | |
| | 1 Nos 25 A DP MCB for Glow sign board & Outer Lighting | | | | |
| | 1 Nos 25 A DP MCB Spare | | | | |
| | 1 Nos 32 A DP MCB Spare | | | | |
| | 1No. VAF Digital meter with (100/5A)CT. 6 Nos Phase indicator lamps | | | | |
| 2.0 | Supplying & Fixing 100 Amp, 415 V Wireable IC Cutout - | Set | 1.00 | | 1 |
| 2.0 | 3nos in MS enclouser with j lock & key arrangements. | ક્લ | 1.00 | | |

| SL.N O. | DESCRIPTION OF ITEMS | UNIT | QUANTIT Y | RATE | AMOUNT |
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| 3.0 | Supply and installation of SPN, Double Door, Metal type, | | • | | |
| | (hager IP43, legrand make Ekinox3 model or equivalent | | | | |
| | make as approved by SBIIMS), surface / flush mounted on | | | | |
| | wall, interconnected wiring complete with earthing lugs, | | | | |
| | including DB wiring, termination of circuits with ping type | | | | |
| | copper lugs, blank plates, etc. housing following switchgears | | | | |
| | : | | | | |
| 3.1 | L.D.B (Light Distribution Board) | Set | 1.00 | | |
| | 12 way SPN DB | | | | |
| | Incoming: -1 No. 32A DP MCB | | | | |
| | Outgoing :- 10 No. 6-10 A SP MCB | | | | |
| 3.2 | All MCB must be class C Type C.D.B (Computer Distribution Board) | SET | 1.00 | | |
| 3.2 | 12 way SPN DB | SEI | 1.00 | | |
| | Incoming :- 1 No. 32A DP-10 kA - MCB | | | | |
| | Out going :- 10 No. 6-10 A SP -10 kA -MCB | | | | |
| | All MCB must be class C Type | | | | |
| 2.2 | AC.D.B (AC Distribution Board) | SET | 1.00 | | |
| 3.3 | 4 way TPN DB | SEI | 1.00 | | |
| | Incoming: 1 No. 63A TPN-10 kA - MCB | | | | |
| | Out going :- 7 No.25 A SP -10 kA -MCB | | | | |
| | All MCB must be class C Type | | | | |
| 3.4 | U.P.S Incoming DB | SET | 1.00 | | |
| 3.4 | 4 way SPN DB | SEI | 1.00 | | |
| | 40 Amp DP MCB – 2 nos (1main & 1 spare). | | | | |
| | All MCB must be class C Type | | | | |
| 3.5 | U.P.S Outgoing DB | SET | 1.00 | | |
| 3.3 | 8 way SPN DB | SEI | 1.00 | | |
| | Incoming 1 No. 40A DP MCB | | | | |
| | Out going 3 No. 25 A SP MCB | | | | |
| | 1 No. 10 A SP MCB | | | | |
| | All MCB must be class C Type | | | | |
| 4.0 | Supply and installation of Single isolation switch for entire | | | | |
| 4.1 | 4 way SPN DB | SET | 1.00 | | |
| 7.1 | 1 No. 100 A -415V-4P isolator. (for A.C) | SEI | 1.00 | | |
| 4.2 | 4 way SPN DB | SET | 1.00 | | |
| | 1 No. 63 A -415V-DP isolator (for Light) | | | | |
| | 1 No. 40 A -415V-DP isolator (for Inverte r) | | | | |
| | 5. FITTINGS OF FIXTURES | | | | |
| 1.0 | Supply,installation and testing of recess LED lights fittings (| Nos. | 24.00 | | |
| | 15-18 W) of squre type with all accessories complete of | | | | |
| | Crompton/ Philips/ Orient or Equivalent Make as required as | | | | |
| | per direction of Engineer in charge. | | | | |
| 2.0 | Supply,installation and testing of recess LED lights fittings (| Nos. | 15.00 | | |
| • | 12Wt) of sport type with all accessories complete of Philips | | | | |
| | / Crompton/ Wipro as required as per direction of Engineer | | | | |
| | in charge. | | | | |
| 3.0 | Providing and fitting of 450 mm sweep Wall fan(metal body | Nos. | 9.00 | | |
| |) of approved make . | | | | |
| 4.0 | Providing and fitting of 400 mm sweep Exhust fan of | Nos. | 3.00 | | |
| | approved make. | | | | |

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| 5.0 | Providing and fitting of 1200 mm sweep celing fan of | Nos. | 2.00 | | |
| | approved make . (including fan regulator) | | | | |
| 6.0 | Supply & fixing of fan-hook,by cutting roof slab and welding 10 mm dia.Fan hook with main re-Inforcement of | Nos. | 2.00 | | |
| | roof slab complete in all respect | | | | |
| 7.0 | Providing and fitting of call bell of approved make. | Nos. | 1.00 | | |
| 8.0 | Supplying, fixing of 1x 18watt LED patty fittings with all | Nos | 8.00 | | |
| 0.0 | accessories of Philips / Crompton/ Wipro make as per | 1105 | | | |
| | direction of EIC. | | | | |
| 9.0 | Supply,installation and testing of LED light fittings (1x9wt) | Nos. | 2.00 | | |
| | with angle holder of Philips/ Crompton/ Syska or | | | | |
| | equivelent as required as per direction of Engineer in charge. | | | | |
| 1.0 | 6.CABLE, MAINS & SUBMAINS. | | 1 | | |
| 1.0 | Supply of all required materials and wiring to circuits/ submains with following number and sizes of PVC insulated | | | | |
| | 1100 volt grade multi standard FR copper wire run inside | | | | |
| | rigid FR PVC conduits of 20mm Dia 1.5 mm thick of ISI | | | | |
| | mark as required and copper wire as earth continuity | | | | |
| | conductor and complete in all respect including making good | | | | |
| | to all damages caused and as per the direction of Consultant and Engineer-in-charge. | | | | |
| 1 1 | | 3.54 | 200.00 | | |
| 1.1 | Recessed wiring with (2Rx2.5sqmm +1Rx1.5sqmm) copper wire (LDB/CDB to Common Switch board and power | Mts | 200.00 | | |
| | Points / Computer points etc.) | | | | |
| 1.2 | Recessed wiring with (2Rx4.0sqmm +1Rx2.5sqmm) copper | Mts | 170.00 | | |
| | wire (UPS output to CDB / AC points) | | | | |
| 1.3 | Recessed wiring with (2Rx6.0 sqmm +1Rx4.0 sqmm) | Mts | 60.00 | | |
| | copper wire (PANEL to L.D.B / Inverter / UPS input /Light | | | | |
| 1.4 | master switch) Recessed wiring with (1Rx2.5sqmm) copper wire for | Mts | 45.00 | | |
| 1.4 | inverter wairing. | IVILS | 43.00 | | |
| 2.0 | S & I of 1100V grade copper armoured cable having sector | | | | |
| | / circular shaped aluminium conductor PVC insulated cores, | | | | |
| | laid up, PVC tape wrapped inner sheathed, GI strip / wire | | | | |
| | armoured and overall extruded PVC sheathed confirming to | | | | |
| | IS: 1554, laid on wall or ceiling using GI clamps and spacers as per route shown at site and further as directed by Bank / | | | | |
| | Architect in the following sizes. | | | | |
| 2.1 | Surface wiring with (10 sqmm) 4C core unarmored copper | Mts | 10.00 | | |
| | cable . (From main Panel to master AC DB Contoller) | | | | |
| | 7. EARTHING | | | | |
| 1.0 | Providing and fixing Earthing with G.I. earth plate 600 mm | Nos. | 2.00 | | |
| | X 600 mm X 6.36 mm thick including accessories, and | | | | |
| | providing masonry enclosure with cover plate having locking | | | | |
| | arrangement and watering pipe of 2.7 metre long etc. with | | | | |
| | alternative layer of 150mm thick charcoal/ coke and salt as required. For SPD/ Panel. | | | | |
| | required. Pot SFD/ Failet. | | | | |

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| 2.0 | Providing and fixing of Earthing with copper earth plate 600 mm X 600 mm X 3.18 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipeof 2.7 metre long etc. with alternative layer of 150mm thick charcoal/ coke and salt as required. For UPS. | | 1.00 | | |
| 3.0 | Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm) | | 20.00 | | |
| 4.0 | Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing as required. | Mts. | 30.00 | | |
| 1.0 | 8.DATA / TELEPHONE WAIRING Supply of all required materials and laying of CAT-6 LAN wairing from server to Hub and Hub to computer I/O Points of approved brand ((D-Link/Digilink/Amps)) laid through rigid FR/FRLS PVC conduits of 20mm Dia 1.5 mm thick of ISI mark duly burried under floor with necessary chasing / breaking in floor and to be refinished with all necessary civil material etc. or to be cleated on wall / ceiling with saddles / spacer etc. necessary termination etc. completeas in all respect including making good to all damages caused and as per the direction of Consultant and Engineer-in-charge. | | 180.00 | | |
| 2.0 | Supply of all required materials & laying 2 pairs 0.51 cross section telephone wires of ITI approved laid through rigid FR/FRLS PVC conduits of 20mm Dia 1.5 mm thick of ISI mark duly burried under floor with necessary chasing / breaking in floor and to be refinished with all necessary civil material etc. or to be cleated on wall / ceiling with saddles / spacer etc. necessary termination etc. completeas in all respect including making good to all damages caused and as per the direction of Consultant and Engineer-in-charge. | | 30.00 | | |
| 3.0 | Supply, fixing of RJ 45 information outlet (I/O) with safey sutter of D-link make with front modular cover plate, flush box metallic or PVC for trucking system etc. | Nos. | 11.00 | | |
| 4.0 | Supply, fixing, testing of RJ11 Modular Telephone socket point with suitable GI boxes complete in all respect as per direction of EIC. | | 2.00 | | |
| 5.0 | Supply & fixing of 9U/500D Wall Mount Rack loaded with one no 6skt 6A power distribution unit, 2nos cable manager, two nos 90 CFM FANs and one pkt H/W screw. Make: APW/Valrack/Rittal | Set. | 1.00 | | |
| 6.0 | Supply and Fixing of Cat6 Factory crimpped moulded 1mtr | Nos. | 11.00 | | |
| 7.0 | patch cord. Make: Legrand/ Schneider/ Digisol Supply and Fixing of Cat6 Factory crimpped moulded 2mtr patch cord. Make: Legrand/ Schneider/ Digisol | Nos. | 11.00 | D. | |
| | TOTAL | | | Rs. | |